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| 2 | BRS  | L2  | 29   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | (virtual adj machine) AND IEEE-1394                                       | 2007/03/20 16:33 |
| 3 | BRS  | L3  | 229  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | (virtual adj machine) and (firewire or IEEE-1394)                         | 2007/03/20 16:34 |
| 4 | BRS  | L4  | 249  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machine) or (emula\$3 same OS)) and (firewire or IEEE-1394) | 2007/03/20 16:35 |
| 5 | BRS  | L5  | 14   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machines) or (emula\$3 same OS)) and (IEEE-1394)            | 2007/03/20 16:40 |

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| 6  | BRS  | L8  | 533  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machines) or (emula\$3 same OS)) and infrared                          | 2007/03/20 16:40 |
| 7  | BRS  | L9  | 43   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machines) or (emula\$3 same OS)) and infrared and "802.11b"            | 2007/03/20 16:41 |
| 8  | BRS  | L10 | 533  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machines) or (emula\$3 same OS)) and infrared                          | 2007/03/20 16:42 |
| 9  | BRS  | L11 | 160  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machines) or (emula\$3 same OS)) and infrared and (host same computer) | 2007/03/20 16:49 |
| 10 | BRS  | L12 | 19   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | ((virtual adj machines) or (emula\$3 same OS)) and "802.11" and (host same computer) | 2007/03/20 16:50 |



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### Low Bandwidth Distributed File Systems

V Kasenda, OW Tat, TK Huat - comp.nus.edu.sg

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YK Shen - thesis.lib.cycu.edu.tw

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| 4 | BRS  | S345  | 38   | (emulators same (operating adj systems))                                     |
| 5 | BRS  | S348  | 27   | (emulators same (operating adj systems)) and host and (data) and trans\$3    |

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| 2 | BRS  | L2  | 18   | US-PGPUB;<br>USPAT;<br>USOCR | ("4747040"   "4787031"   "4792895"  <br>"4926322"   "4974159"   "5134580"  <br>"5167023"   "5255379"   "5307504"  <br>"5440710"   "5488716"   "5522075"  <br>"5560013"   "5652869"   "5652872"  <br>"5721922"   "5761477"   "5832205").PN. | 2007/03/20 12:54 |
| 3 | BRS  | L3  | 6451 | US-PGPUB;<br>USPAT;<br>USOCR | (operat\$3 same system same emula\$3)  | 2007/03/20 12:55 |
| 4 | BRS  | L4  | 3314 | US-PGPUB;<br>USPAT;<br>USOCR | (operating same system same emula\$3)  | 2007/03/20 12:55 |
| 5 | BRS  | L5  | 2180 | US-PGPUB;<br>USPAT;<br>USOCR | (operating adj system) same emula\$3   | 2007/03/20 12:55 |
| 6 | BRS  | L6  | 117  | US-PGPUB;<br>USPAT;<br>USOCR | operating adj system adj emula\$3  | 2007/03/20 12:56 |
| 7 | BRS  | L7  | 66   | US-PGPUB;<br>USPAT;<br>USOCR | (operating adj system adj emula\$3) and<br>(host same computer)  | 2007/03/20 12:57 |
| 8 | BRS  | L8  | 0    | US-PGPUB;<br>USPAT;<br>USOCR | (operating adj system adj emula\$3) and<br>(host same computer) and (WLAN)   | 2007/03/20 12:57 |
| 9 | BRS  | L9  | 11   | US-PGPUB;<br>USPAT;<br>USOCR | (operating adj system adj emula\$3) and<br>(host same computer) and wireless   | 2007/03/20 12:59 |


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### 181 [Composable ad hoc location-based services for heterogeneous mobile clients](#)

Todd D. Hodes, Randy H. Katz

 October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

 Full text available: pdf(403.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


### 182 [Mobile computing in outdoor environments \(extended abstract\)](#)



Massimo Ancona, Gabriella Doderio, Vittoria Gianuzzi

 February 1999 **Proceedings of the 1999 ACM symposium on Applied computing SAC '99**

Publisher: ACM Press

 Full text available: pdf(407.86 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


### 183 [Fast and scalable wireless handoffs in supports of mobile Internet audio](#)

Ramón Cáceres, Venkata N. Padmanabhan

 December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

 Full text available: pdf(187.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

### 184 [Every picture tells a story: learning to look at space scientific data images](#)

George Tuthill, Stephanie Stevenson

 November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '98**

Publisher: IEEE Computer Society

 Full text available: html(20.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Understanding scientific image data requires us to connect two-dimensional images to three-dimensional reality. Our knowledge of space science changes as our skill for seeing what is in the night sky increases. With eyes as their only tools, early people surveyed the skies, telling stories to explain what they observed. For centuries humankind studied the sky adding new perceptions to the old. The advent of telescopes provided even better means of observation. This clearer sight contributed to a ...

**Keywords:** K-12, NASA, astronomy, national science standards, scientific image data, visualization

#### 185 Informative things: how to attach information to the real world



Rob Barrett, Paul P. Maglio

November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology UIST '98**

**Publisher:** ACM Press

Full text available: pdf(54.72 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** cooperative work, networked information, physical user interface

#### 186 VISA: Netstation's virtual Internet SCSI adapter



Rodney Van Meter, Gregory G. Finn, Steve Hotz

October 1998 **ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII**, Volume 32 , 33 Issue 5 , 11

**Publisher:** ACM Press

Full text available: pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we describe the implementation of VISA, our Virtual Internet SCSI Adapter. VISA was built to evaluate the performance impact on the host operating system of using IP to communicate with peripherals, especially storage devices. We have built and benchmarked file systems on VISA-attached emulated disk drives using UDP/IP. By using IP, we expect to take advantage of its scaling characteristics and support for heterogeneous media to build large, long-lived systems. Detailed file system ...

#### 187 A scalable wireless virtual LAN

Zhao Liu, Malathi Veeraraghavan, Kai Y. Eng

September 1998 **Mobile Networks and Applications**, Volume 3 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(300.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a Wireless Virtual Local Area Network (WVLAN) to support mobility in IP-over-ATM local area networks. Mobility is handled by a joint ATM-layer handoff for connection rerouting and MAC-layer handoff for location tracking, such that the effects of mobility are localized and transparent to the higher-layer protocols. Different functions, such as Address Resolution Protocol (ARP), mobile location, and ATM connection admission are combined to reduce protocol overhead and from ...

#### 188 Low-loss TCP/IP header compression for wireless networks

Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink

October 1997 **Wireless Networks**, Volume 3 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(534.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless is becoming a popular way to connect mobile computers to the Internet and other networks. The bandwidth of wireless links will probably always be limited due to properties of the physical medium and regulatory limits on the use of frequencies for radio communication. Therefore, it is necessary for network protocols to utilize the available bandwidth efficiently. Headers of IP packets are growing and the bandwidth required for transmitting headers is increasing. With the coming of I ...

189 Composable ad-hoc mobile services for universal interaction

 Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe  
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97**

**Publisher:** ACM Press

Full text available:  pdf(1.86 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

190 A control and management network for wireless ATM systems

Stephen F. Bush, Sunil Jagannath, Ricardo Sanchez, Joseph B. Evans, Gary J. Minden, K. Sam Shanmugan, Victor S. Frost  
September 1997 **Wireless Networks**, Volume 3 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(573.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the design of a control and management network (orderwire) for a mobile wireless Asynchronous Transfer Mode (ATM) network. This mobile wireless ATM network is part of the Rapidly Deployable Radio Network (RDRN). The orderwire system consists of a packet radio network which overlays the mobile wireless ATM network. Each network element in this network uses Global Positioning System (GPS) information to control a beamforming antenna subsystem which provides for spatial re ...

191 Microsoft Windows CE: a new handheld computing platform


 Robert O'Hara  
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing SAC '97**

**Publisher:** ACM Press

Full text available:  pdf(196.18 KB) Additional Information: [full citation](#), [index terms](#)

**Keywords:** PDA, handheld PC, mobile computing, windows CE

192 WorldBeat: designing a baton-based interface for an interactive music exhibit

 Jan O. Borchers  
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '97**

**Publisher:** ACM Press

Full text available:  pdf(963.21 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** baton, education, interactive exhibit, interface design, music



193 Low-loss TCP/IP header compression for wireless networks

 Mikael Degermark, Mathias Engan, Björn Nordgren, Stephen Pink  
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

194 Fast and scalable handoffs for wireless internetworks

 Ramón Cáceres, Venkata N. Padmanabhan  
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

195 Evaluation of TCP Vegas: emulation and experiment

 Jong Suk Ahn, Peter B. Danzig, Zhen Liu, Limin Yan  
October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper explores the claims that TCP Vegas [2] both uses network bandwidth more efficiently and achieves higher network throughput than TCP Reno [6]. It explores how link bandwidth, network buffer capacity, TCP receiver acknowledgment algorithm, and degree of network congestion affect the relative performance of Vegas and Reno.

196 Pen computing: a technology overview and a vision

 André Meyer  
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

197 Contents of the Computer Communication Review 1970–1994

 David Oran  
January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [index terms](#)

198 There's gold in them thar networks! or searching for treasure in all the wrong places

 Jerry Martin  
November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User**

**services SIGUCCS '93****Publisher:** ACM PressFull text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [index terms](#)**199** There's gold in them thar networks!: or searching for treasure in all the wrong places ☐

Jerry Martin

December 1992 **Proceedings of the 20th annual ACM SIGUCCS conference on User services SIGUCCS '92****Publisher:** ACM PressFull text available:  [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [index terms](#)**200** Internet library catalogs: the MPG as emulation negotiator ☐

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- 1 MPI: A Message-Passing Interface Standard, Version 1.0 ed: Message Passing Interface Forum, 1994.
- 2 [Thomas E. Anderson](#) , [David E. Culler](#) , [David A. Patterson](#) , and the NOW team, [A Case for NOW \(Networks of Workstations\)](#), IEEE Micro, v.15 n.1, p.54-64, February 1995
- 3 B. S. Ang, D. Chiou, L. Rudolph, and Arvind, "Message Passing Support on StarT-Voyager," MIT Laboratory for Computer Science CSG-Memo-387, 1996.
- 4 F. Berry, E. Delegates, and A. M. Merritt, "The Virtual Interface Architecture Proof-of-Concept Performance Results,". Server Systems Technology, intel Corporation, 1997.
- 5 [Raoul Bhoedjang](#) , [Tim Rühl](#) , [Henri E. Bal](#), [Efficient Multicast on Myrinet using Link-Level Flow Control](#), Proceedings of the 1998 International Conference on Parallel Processing, p.381, August 10-14, 1998
- 6 [M. A. Blumrich](#) , [K. Li](#) , [R. Alpert](#) , [C. Dubnicki](#) , [E. W. Felten](#) , [J. Sandberg](#), [Virtual memory mapped network interface for the SHRIMP multicomputer](#), Proceedings of the 21ST annual

international symposium on Computer architecture, p.142-153, April 18-21, 1994, Chicago, Illinois, United States

7 Greg Buzzard , David Jacobson , Milon Mackey , Scott Marovich , John Wilkes, An implementation of the Hamlyn sender-managed interface architecture, Proceedings of the second USENIX symposium on Operating systems design and implementation, p.245-259, October 29-November 01, 1996, Seattle, Washington, United States

8 Brent N. Chun , Alan M. Mainwaring , David E. Culler, Virtual Network Transport Protocols for Myrinet, IEEE Micro, v.18 n.1, p.53-63, January 1998

9 Compaq Corporation, Intel Corporation, and Microsoft Corporation, "Virtual Interface Architecture Specification, Version 1.0," 1997.

10 Peter Druschel , Larry L. Peterson, Fbufs: a high-bandwidth cross-domain transfer facility, Proceedings of the fourteenth ACM symposium on Operating systems principles, p.189-202, December 05-08, 1993, Asheville, North Carolina, United States

11 Peter Druschel , Larry L. Peterson , Bruce S. Davie, Experiences with a high-speed network adaptor: a software perspective, Proceedings of the conference on Communications architectures, protocols and applications, p.2-13, August 31-September 02, 1994, London, United Kingdom

12 Cezary Dubnicki , Angelos Bilas , Kai Li, Design and Implementation of Virtual Memory-Mapped Communication on Myrinet, Proceedings of the 11th International Symposium on Parallel Processing, p.388, April 01-05, 1997

13 T. von Eicken , A. Basu , V. Buch , W. Vogels, U-Net: a user-level network interface for parallel and distributed computing (includes URL), Proceedings of the fifteenth ACM symposium on Operating systems principles, p.40-53, December 03-06, 1995, Copper Mountain, Colorado, United States

14 Thorsten von Eicken , David E. Culler , Seth Copen Goldstein , Klaus Erik Schauer, Active messages: a mechanism for integrated communication and computation, Proceedings of the 19th annual international symposium on Computer architecture, p.256-266, May 19-21, 1992, Queensland, Australia

15 M. Homewood and M. McLaren, "Meiko CS-2 Interconnect Elan-Elite Design," presented at Hot Interconnects, 1993.

16 K. Keeton, D. A. Patterson, and T. E. Anderson, "LogP Quantified: The Case for Low-Overhead Local Area Networks," presented at Hot Interconnects III, 1995.

17 J. Kuskin , D. Ofelt , M. Heinrich , J. Heinlein , R. Simoni , K. Gharachorloo , J. Chapin , D. Nakahira , J. Baxter , M. Horowitz , A. Gupta , M. Rosenblum , J. Hennessy, The Stanford FLASH multiprocessor, Proceedings of the 21st annual international symposium on Computer architecture, p.302-313, April 18-21, 1994, Chicago, Illinois, United States

18 Richard P. Martin , Amin M. Vahdat , David E. Culler , Thomas E. Anderson, Effects of communication latency, overhead, and bandwidth in a cluster architecture, Proceedings of the 24th annual international symposium on Computer architecture, p.85-97, June 01-04, 1997, Denver, Colorado, United States

19 Scott Pakin , Mario Lauria , Andrew Chien, High performance messaging on workstations: Illinois fast messages (FM) for Myrinet, Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM), p.55-es, December 04-08, 1995, San Diego, California, United States

- 20 L. Prylli and B. Tourancheau, "Protocol Design for High Performance Networking: A Myrinet Experience," LIP-ENS, Lyons, France Tech. Report 97-22, 1997.
- 21 S. K. Reinhardt, J. R. Larus, D. A. Wood, Tempest and typhoon: user-level shared memory, Proceedings of the 21ST annual international symposium on Computer architecture, p.325-336, April 18-21, 1994, Chicago, Illinois, United States
- 22 S. H. Rodrigues, T. E. Anderson, and D. E. Culler, "High- Performance Local Area Communication With Fast Sockets," presented at Usenix 1997 Conference, 1997.
- 23 William Evan Speight, John K. Bennett, Efficient runtime support for cluster-based distributed shared memory multiprocessors, 1998
- 24 E. Speight, J. Bennett, Using Multicast and Multithreading to Reduce Communication in Software DSM Systems, Proceedings of the 4th International Symposium on High-Performance Computer Architecture, p.312, January 31-February 04, 1998
- 25 Pin-down Cache: A Virtual Memory Management Technique for Zero-copy Communication, Proceedings of the 12th. International Parallel Processing Symposium on International Parallel Processing Symposium, p.308, March 30-April 03, 1998
- 26 Chandramohan A. Thekkath, Henry M. Levy, Edward D. Lazowska, Separating data and control transfer in distributed operating systems, Proceedings of the sixth international conference on Architectural support for programming languages and operating systems, p.2-11, October 05-07, 1994, San Jose, California, United States
- 27 T. M. Warschko, J. M. Blum, and W. F. Tichy, "The ParaPC/ParaStation Project: Efficient Parallel Computing by Clustering Workstations," University of Karlsruhe, Department of Informafics Technical Report 13/96, 1996.
- 28 K. G. Yocum, J. S. Chase, A. J. Gallatin, A. R. Lebeck, Cut-through delivery in Trapeze: An exercise in low-latency messaging, Proceedings of the 6th International Symposium on High Performance Distributed Computing (HPDC '97), p.243, August 05-08, 1997

### ↑ CITINGS 3

Jin-Soo Kim, Kangho Kim, Sung-In Jung, Building a high-performance communication layer over virtual interface architecture on Linux clusters, Proceedings of the 15th international conference on Supercomputing, p.335-347, June 2001, Sorrento, Italy

Enrique V. Carrera, Ricardo Bianchini, PRESS: A Clustered Server Based on User-Level Communication, IEEE Transactions on Parallel and Distributed Systems, v.16 n.5, p.385-395, May 2005

Kees Verstoep, Raoul A. F. Bhoedjang, Tim Rühl, Henri E. Bal, Rutger F. H. Hofman, Cluster communication protocols for parallel-programming systems, ACM Transactions on Computer Systems (TOCS), v.22 n.3, p.281-325, August 2004

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↪ **C.0 GENERAL**

↪ **Subjects:** Hardware/software interfaces

**Additional Classification:**

**C.** Computer Systems Organization

↪ **C.2** COMPUTER-COMMUNICATION NETWORKS

↪ **C.5** COMPUTER SYSTEM IMPLEMENTATION

↪ **C.5.1** Large and Medium ("Mainframe") Computers

↪ **Subjects:** Super (very large) computers

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Design, Measurement, Performance, Standardization, Theory

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